



Chemistry | 2014-2015 Assessment Plan

1. Which outcome will you assess?
 - Have the ability to perform both qualitative and quantitative analysis by chemical and instrumental methods.
2. Which technique will you use to assess this outcome?
 - CHEM 413: We will use an imbedded assessment on a project that students are required to complete for the course. Students will perform a qualitative analysis of an organic unknown using NMR, IR, and MS data. The students will be assessed on their ability to interpret the data and identify the unknown.
 - CHEM 311: We will use an imbedded assessment on a project that students are required to complete for the course. Students will perform a quantitative analysis of a manganese-containing ore using an instrumental technique called inductively coupled plasma – optical emission spectroscopy (ICP-OES). The students will be assessed on their ability to conduct initial calculations, make calibration standards, perform a digestion, analyze the standards and samples using ICP-OES, and carry out final calculations to report the weight percent of manganese in the sample.
3. Which course or group of students will you assess on the outcome chosen above and when?
 - Students in CHEM 413 will be assessed in the Fall semester of the 14/15 academic year. Students in CHEM 311 will be assessed in the Spring semester of the 14/15 academic year.
4. Who will do the assessment and coordinate the data collection and reporting?
 - John Lyon will collect and report on the assessment data for CHEM 413. Michael Zorn will collect and report on the assessment data for CHEM 311.